

Micro Commercial Components Corp.

Complete Discrete Semiconductor Solutions

Part Number	US1M	
product family	ULTRA FAST RECOVERY RECTIFIERS	
package type	DO-214AC	
VRM(PRV)	1000V	
Ifsm	30A	
IF(AV)	1.0A	
@Vf	1.7V	
@If	1.0A	
Trr	100nS	
IR	10μΑ	
@VR	1000V	
Package Qty	Tape: 5K/Reel, 80K/Ctn;	

This product is listed under the following categories where you may find similar products: Diodes

Ultra Fast Recovery Rectifiers



US1A THRU US1M

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Glass Passivated Chip
- Ultra Fast Switching For High Efficiency
- For Surface Mounted Applications
- Low Forward Voltage Drop And High Current Capability
- Low Reverse Leakage Current
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 30°C/W Junction To Lead

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
US1A	US1A	50V	35V	50V
US1B	US1B	100V	70V	100V
US1C	US1C	150V	105V	150V
US1D	US1D	200V	140V	200V
US1G	US1G	400V	280V	400V
US1J	US1J	600V	420V	600V
US1K	US1K	800V	560V	800V
US1M	US1M	1000V	700V	1000V

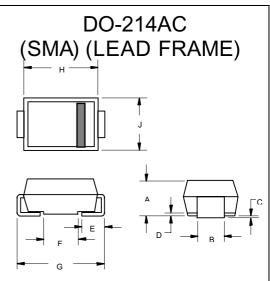
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	$I_{F(AV)}$	1.0A	T _L = 75°C
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
US1A-1D	V_{F}	1.0V	$I_{FM} = 1.0A;$
US1G		1.4V	T _J = 25°C
US1J-1M		1.7V	
Maximum DC			
Reverse Current At	I_R	10uA	T _A = 25°C
Rated DC Blocking	-10	100uA	T _A = 100°C
Voltage		1000,	1A - 100 C
Maximum Reverse			
Posovory Timo			
Recovery Time US1A-1G	T_{rr}	50ns	$I_{F}=0.5A, I_{R}=1.0A,$
US1J-1M		100ns	I _{rr} =0.25A
Typical Junction			,
Capacitance			
US1A-1G	C. ₁	20pF	Measured at
US1J-1M	· ·	17pF	1.0MHz, V _R =4.0V

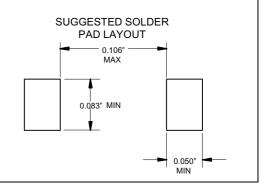
*Pulse test: Pulse width 300 sec, Duty cycle 1%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

1 Amp Ultra Fast Rectifier 50 to 1000 Volts



	Dimensions				
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.079	.096	2.00	2.44	
В	.050	.064	1.27	1.63	
С	.002	.008	.05	.20	
D		.02		.51	
E	.030	.060	.76	1.52	
F	.065	.091	1.65	2.32	
G	.189	.220	4.80	5.59	
Н	.157	.181	4.00	4.60	
J	.090	.115	2.25	2.92	





Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel5Kpcs/Reel

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